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(54) Title: OLEFIN POLYMERISATION PROCESS

(57) Abstract: A process for the homopolymerisation of ethylene or the copolymerisation of ethylene and (α -olefins in a polymeri-
sation reactor, said process carried out in the presence of a catalyst system comprising (a) a polymerisation catalyst and (b) an ionic
activator is characterised in that an organometallic compound of a Group IIB metal having at least one unit of formula: M_2O_2R or
 M_2O_2M where M is the Group IIB metal and R is a hydrocarbyl group is added to the reactor. Preferred organometallic compounds
include aluminoxanes and the process results in improved poison scavenging as well as advantages in activity profiles, catalyst activi-
ty and product characteristics. The process is particularly suitable for use with supported metallocene catalyst systems in the slurry
or gas phase.